IESI News

April 1, 1981
Vol. 1 No. 1

INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

It´s finally here! After numerous requests, the IESI newsletter makes its debut. IESI NEWS will be published monthly to provide you with up to the minute information on software, hardware and other areas pertaining to IESI´s data-entry equipment.

Every month we´ll cover the current status of one of our software packages, and introduce you to new and usefull applications. We´ll keep you abreast of improvements and additions to our hardware line. Each month you´ll also be introduced to one of the people who are a part of IESI.

IESI NEWS is provided free to DATACORDER users, suppliers and other interested parties. If you wish to be added to or removed from our mailing list, please drop us a line at the address above.

One other note; space is limited, but letters to the editor are welcome. All such letters will be answered, those of general interest will be answered in print.

Leo A. Notenboom
Editor

EXTENDED QUICK

IESI will soon be releasing EXTENDED QUICK. This is a much enharced version of IESI´s QUICK data entry language. New features include:

- Error Correction. (DATACORDER II only) Any record recorded in the current batch may be easily corrected.
- Seven additional field types.
- External parallel printer support. (DATACORDER II only, requires CENTRONICS interface.)
- Ten additional registers.
- Upper / lower case and control characters.
- Calculator function for DATACORDER II.

< Continued >

- 'Picture' or 'Print Using' type output format for printing.
- Source conversion for older versions of QUICK.

EXTENDED QUICK requires a 32K DATACORDER I or II, EXTENDED QUICK may be ordered begining May 1, 1981 for $395. This includes the Program Editor, Table Editor, Combiner, QUICK Reference Manual, an EXTENDED QUICK addendum, and QUICK work sheets and programming forms. 16K memory upgrades, to take an existing 16K machine to 32K, are also available. A seven page summary of EXTENDED QUICK is available free of charge by writing 'QUICK Software' c/o IESI.

Software Updates

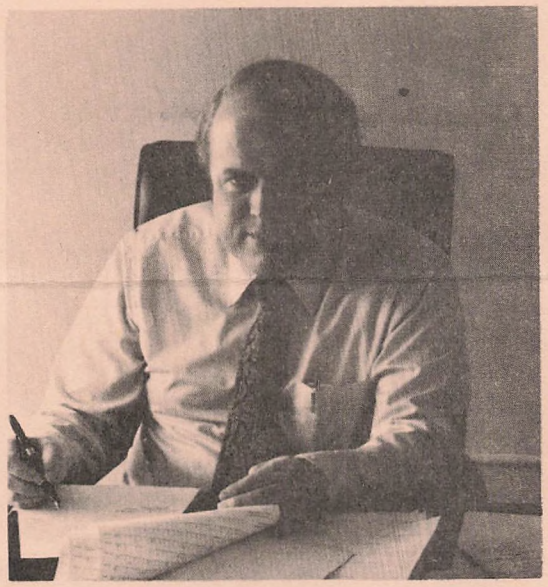
Every attempt is made to provide you with reliable, usable software. However, as problems are found or additions made, new versions of certain programs are made available. If you already own a particular program, and need an update to the most recent version, there is a $25 charge to cover the cost of the cassette and handling.

If you need an update quickly and have a Bell 202 or 201 compatible modem, or a DATACORDER I, and the BISYNC configurator or PGMRX program, we can transmit the program to you via the phone for an additional $25 service charge, you pay any long-distance charges.

A detailed rundown of the most recent versions of software will be published monthly, beginning next month with QUICK. Information can also be obtained by writing IESI, or calling 800-426-7740.

People

Who better to be introduced in our first issue than Joe Winston, the president of IESI. Joe founded the company in 1976, heading sales until December of 1979 when he became president. Currently, in addition to his responibilities as president, Joe is still very active in sales support. Joe has a bachelors degree in Math (U. of Kansas) and a masters in Economics (U. of Washington). With his wife Sandy he enjoys mushrooming, and sailing the waters of the Pacific Northwest.



User's Group

If you are interested in participating in a DATACORDER User's Group, drop us a line. We'll report on the response in a future issue of IESI NEWS.

IESI News

May 1, 1981
Vol. 1 No. 2

INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

EXTENDED QUICK SPECIAL

EXTENDED QUICK has been released for field testing this week. Barring any unforseen problems, we will be ready for a full release on schedule. There has been some changes to the method of error correction used by EXTENDED QUICK to make source conversion easier. A revised document will be mailed to all current QUICK users.

In conjunction with the release, IESI has announced a special offer to purchasers of EXTENDED QUICK. All orders for EXTENDED QUICK received PRIOR to the May 15th release date will be billed $295 instead of the announced $395. In addition, any number of 16K memory upgrades may be ordered at the same time at a cost of $400 each, compared to the normal price of $550. In addition, there is a 5% cash discount if your check accompanies your order.

$660, a combined savings of over $280, will put EXTENDED QUICK on your 16K machine.

QUICK

After announcing new EXTENDED QUICK, last month, this month we begin a brief revision history of IESI's QUICK data entry language. This month we look at the QUICK Combiner and Table Editor.

Combiner - DC II

254.10	4/11/79	- Quick with no Conditional Branching.
316.08	4/11/79	- Quick with Conditional Branching.
QCMB2.10	10/3/79	- New naming scheme. Same as 316.08.
QCBNR2.10	08/15/80	- Major language restructuring, with the new programming manual. See page 53 of "Structured Programming in Quick" for a list of enhancements.
QCBNR2.20	10/30/80	- Change which causes a blank to be generated for a null alpha entry only if the minimum field length is zero. (If a look-up table is used, be sure to add a single blank entry to the table).
QCBNR2.30	12/15/80	- Bug fixed which affected conditional

branching following a multiplication statement with a scale factor greater than 9.

Combiner - DC I

QCMB1.10	01/03/81	- Original DC I version.
QCBNR1.10	09/20/80	- See QCBNR2.10, above.
QCBNR1.20	10/30/80	- See QCBNR2.20, above.
QCBNR1.30	12/15/80	- See QCBNR2.30, above.

Table Editor - DC II

253.10	04/11/79	- Original TABLE GENERATOR.
QTBL2.10	10/03/79	- New naming scheme. Same as 253.10.
QTEDR2.10	08/15/80	- Language restructure. See QCNBR2.10.

Table Editor - DC I

QTBL1.10	01/03/80	- First DC I version.
QTEDR1.10	09/20/80	- Language restructure. See QCBNR2.10.

What's in a name?

All IESI programs are assigned a name of the form (xxxxxy.ab). 'xxxxx' is the program name, such as QCBNR or BISYN. 'y' is either 1 or 2, indicating that the program is for DATACORDER I or II. 'a' is the release number, 1-9. 'b' is the pre-release or special modification level, A-Z. 'b' is zero ('Ø') on all 'release' programs. Thus the current QUICK Combiner for DC II is referred to as 'QCBNR2.30'.

Please be sure to include the full program name when you inquire about IESI software. This will help us in aiding you quickly and efficiently.

People

If you've had occasion to call IESI, the first voice you probably heard was that of Miss Dianne Summers, our receptionist. Dianne has been manning our phones and her typewriter since 1978. Since then she has been instrumental in finding order in an often chaotic front office.

IESI News

June 1, 1981
Vol. 1 No. 3

INTERNATIONAL
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Direct Connect Modems

IESI now offers, for both DATACORDERs 1 and 2, an internal direct-connect modem. This modem is FCC approved and Bell 202 compatible in half duplex mode on dial-up lines.

The 1200 baud modem is packaged inside each DATACORDER and allows it to be connected directly to the phone line. This eliminates the need for costly external modems or phone instruments. Using soon to be released versions of the BISYNC and BURROUGHS communications programs, the DATACORDER is able to dial a pre-configured or operator entered phone number, or auto answer an in-coming call.

The 1200 Baud direct conect modem options lists for $495.00 on both DATACORDER I and II. Autodial communications software requires 32K of memory and will be available in August for $150.00 each.

Quick (continued)

This month we conclude the revision history of IESIs QUICK data entry language, begun in last month's issue.

Program Editor - DC II

252.08	04/11/79	- Original FORMAT GENERATOR, without conditional branching.
315.04	04/11/79	- Original FORMAT GENERATOR, with conditional branching.
QFMT2.10	10/03/79	- PRINT key function implemented. (See page 55 of QUICK manual.)
QPEDR2.10	08/15/80	- Major language restructure, with the new programming manual. See page 53 of "Structured Programming in Quick" for a list of enhancements. (See also note below.)
QPEDR2.20	10/21/80	- Bug fixed which caused the check digit statement parameter not to display 'YES' when using the display command. This had the effect of negating the check digit parameter when it was displayed, unless it was answered 'Yes' at the time.

Program Editor - DC I

QFMT1.10	01/03/80	- First Datacorder I version.
QPEDR1.10	09/20/80	- Language restructure. See QPEDR2.10.
QPEDR1.20	10/21/80	- Bug fixed. See QPEDR2.20, above.

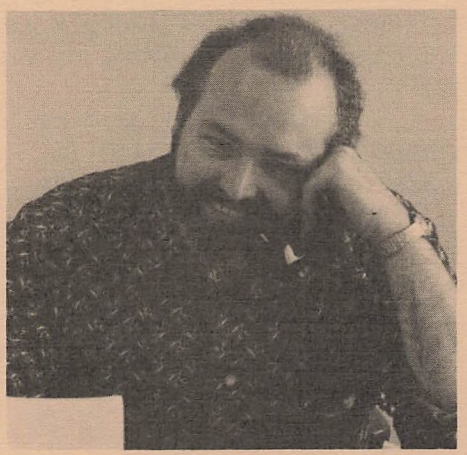
Note: If upgrading an old version source to QPEDR restructured version, and the source program uses check digits, the following procedure must be used:

1. Load the source tape into the program editor using the 'EDIT' action command.

2. 'DISPLAY' all the statements using check digits, answering 'YES' to the check digit parameter.

3. 'SAVE' the upgraded source.

People



Dave Sanders has been our service manager since March of 1980. If you've had occasion to call IESI about a problem or breakdown with your DATACORDER, Dave is most likely the man you talked to. In addition to service, Dave took on the production manager's position in October of last year, thus becoming responsible for both making and fixing DATACORDERS I and II.

Print Program

The all new peripheral printing program, PRINT2, will be released for DATACORDER II this month. PRINT2 prints cassette data on the internal, or any one of three external printers. The three printer interfaces used may be: parallel (Centronics), serial (communications port), or the General Purpose Serial I/O Port (GPSIOP). The program allows for full configurability of carriage control, page size and printer characteristics. Tapes printed may be IESI data tapes, and communications received 'Print' tapes.

PRINT2 may be ordered for $150.00, from IESI at the address above.

IESI News

July 1, 1981
Vol.1 No. 4

INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

DATACORDER III

DATACORDER III has arrived! The first step in IESI's product expansion, DC III sports a full 80 column by 24 line display. Packed with all the reliability and flexibility of the DATACORDER II, DATACORDER III gives a new dimension to off-line data entry and on-line data access. New versions of software previously available for DATACORDER II will also be available, including QUICK (see below) and BASIC, as well as BISYNC, TTYCOM and the Burroughs communications programs. In addition, a new async terminal emulator will be available which will allow DC III to 'look like' any of several popular terminals.

This is a pre-release announcement to our existing customers. DATACORDER III will be available for shipment July 15, 1981. The list price is $4295.00. The 80 by 24 display and its interface are available to upgrade existing DATACORDER II's for $895.00.

Extended QUICK

The newest release of DATACORDER II Extended QUICK can now also be run on DATACORDER III, or DATACORDER II with the optional CRT interface. Extended QUICK will scroll 21 lines of internal printer data, while maintaining the one line display contents at the bottom of the screen. The internal printer may be disabled, thus increasing speed and decreasing paper usage.

In addition, these problems with the initial release have been corrected: 1) Registers 10-19 were not cleared when using the CLEAR REC key back-up function; 2) If a back-up is performed after an error correction (using the MR key), before a new record is written, some registers will be destroyed.

The current versions for Extended QUICK are:

Combiner	- QCBNE2.20
Program Editor	- QPEDE2.20
Table Editor	- QTEDE2.10

Tape Utilities

This months revision history covers the Tape Utilities program. Designed to allow QUICK and BASIC data tapes to be listed on the internal printer and prepared for data entry, TPUTL is shipped with every DATACORDER. Additional copies may be ordered for $25.

DC II	306.0	11/30/78	- Original Program
	TPUTL2.10	01/25/80	- Program renamed, Full printer width utilized, Track A/B selection added, Limited capability to list 'PRINT' tapes added.
	TPUTL2.20	03/24/82	- Fixed track B prep, which would prep track A instead.
DC I	TPUTL1.10	01/08/80	- Initial Release
	TPUTL1.20	09/09/80	- Improved tape 'prep' error detection.

People

When it comes to money, the last word around IESI is usually had by Carolyn Canup, our head bookkeeper. Carolyn started with IESI in 1976. Carolyn is also in charge of our accounts payable and receivable; so if you have any questions about payment or billing, she is the one to contact.

Correction

The list price of PRINT2, the peripheral printing program was reported erroneously last month. It is available for $100.

IESI News

August 1, 1981
Vol. 1 No. 5

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DATACORDER IV & DATACORDER V

How do we top our announcement of Datacorder III last month? By announcing both Datacorders IV and V!

Datacorder IV once again builds on the reliability and flexibility of our Datacorder II, by adding from one to four 5¼ inch floppy disk drives. Available with double density, quad density, and double sided quad density drives, and combined with the CP/M2.2 operating system, Datacorder IV becomes a powerful microcomputer. Add IESI's proven data entry and communications software and you get an almost unbeatable data entry station.

Except of course, for Datacorder V. Datacorder V includes all options available to Datacorder IV, but includes a 24 by 80 screen instead of the single line display. Now our unbeatable data entry station becomes a general purpose display and processing tool as well!

Datacorders IV and V will be available in late September. A disk addition for existing Datacorder II's will also be available. Watch IESI NEWS for further information.

(CP/M is a registered trademark of Digital Research Corp.)

BISYNC

This month we begin the modification history of BISYNC, our IBM Binary Synchronous Communications emulator. Bisync is capable of emulating 2780, 3780 and 3741 type devices as well as a number of variations. Bisync has been modified extensively over the past two years, thus our revision history will span two or more issues.

Note that bugs listed on the next page are present in all versions prior to the version which fixes the problem.

DATACORDER II

Version	Modification
301.x	- Basis for all modifications below. Versions numbered 301 or before should be replaced with the latest released version.
BISYN2.10	- Bug fixed which caused the program to crash if the MODE key was hit too many times. - Bug fixed which caused the program to skip the duplication and/or configuration phase if a tape error occured during duplication. - PRINT key enabled to allow printing of configuration parameters as they are entered.
BISYN2.20	- Re-Bid Line At End-OF-File option added for certain RJE applications which required special handling of SIGNON/SIGNOFF.
BISYN2.30	- Tape output capacity increased when compressing received spaces.
BISYN2.50	- Bug fixed which, under certain circumstances, would allow BISYNC to enter receive mode even though only transmit had been specified, thus overwriting the data tape. - Increased stability at baud rates above 2400. - Program now utilizes extra memory in machines with more than 16K. - Corrected a bug which, under certain circumstances would write on track A, even though track B had been specified. - Component selection option removed. - Limited conversational mode option added.

To come: Datacorder I BISYNC and the next release of BISYNC, scheduled for later this year.

People

Wayne Waldroup, our lead technician, came to IESI from a leading stereo manufacturer in 1979. His background includes both digital and analog circuit experience. Wayne is currently responsible for repairing Datacorders, both being manufactured and field repairs.

IESI NEWS

IESI NEWS is published monthly, free of charge to IESI customers, distributors, Datacorder users and other interested parties. Changes to our mailing list may be made by calling 800-426-7740, or by dropping us a line at the address on the front page.

IESI News

September 1, 1981
Vol. 1 No. 6

INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

Stand Alone Modem

IESI now offers a 1200 baud Bell 202 compatible stand-alone modem. This direct connect modem can be used asynchronously or synchronously by any device using a standard RS-232C interface. One of the biggest features of the DATACORDER MODEM is its ability to provide a synchronous clock for those devices requiring it. Pins 15 and 17 are active as transmitter and receiver clock, respectively. In addition, when used with any of DATACORDERS II through V, the modem also has the ability to auto-dial the phone.

Backed by IESIs reputation for reliability and dependable service, the feature packed DATACORDER MODEM is available now, at a list price of $575.00.

CP/M vs. CP/M

Last month we announced the impending arrival of DATACORDERS IV and V, our disk systems which will use the CP/M operating system. This month, we'd like to point out one of the features that will make DATACORDER CP/M one of the most desirable on the market.

Digital Researchs CP/M 2.2 normally takes up 5K of memory in any given machine when a user program is running. This represents approximately 8% of a 64K machine.

When accessing a disk, we've determined that it is VERY desirable to increase the size of the buffers used beyond that normally allotted by CP/M. Sometimes referred to as 'full-track', 'multi-sector' or 'cache' buffering, the result is an increase in disk access speed. An increase up to 16 times faster than the standard method. The trade-off, however, is a CP/M that occupies roughly 12 to 16K, or 20% of a 64K machine.

As always, however, one of Murphys software laws prevails: 'The size of a program always increases to exceed the amount of available memory'. Many programs already exist for CP/M that require the maximum amount of memory available. In order to address this, DATACORDER CP/M will be 'configurable'. That is, you will be allowed to make choices of several options, one of them being a 5K CP/M versus a faster 12K CP/M.

We'll discuss more of the DATACORDER CP/M configuration options next month.

(CP/M is a trademark of Digital Research Corp.)

BISYNC - DATACORDER I

This month we continue the revision history of BISYNC with the history of the DATACORDER I version.

Version	Modification
BISYN1.10	- Initial release of the program. Any previous test versions should be replaced.
BISYN1.20	- When configured for full duplex, transmit carrier (tone) now on only during communication. - Program now recognizes and uses memory in machines larger than 16K. This allows for larger transmit and receive block sizes. - Bug fixed which, under certain circumstances, would allow BISYNC to enter receive mode even though only transmit had been specified, thus overwriting the data tape. - Component selection removed. - Limited conversational mode added.
BISYN1.30	- Various modifications to insure that a 'Temporary Text Delay', when used by BISYN at multiple tapes time, works properly. - End of File action cleaned up when deleting record delimiters on transmit.
BISYN1.40	- Multiple tape transmission corrected when block size equals record length and the record delimiter is being deleted. - 'Send EOT on read error' option added. - Unit separator support added in transmit.

Next month: The next release of BISYN1, BISYN2 and DATACORDER 3 BISYNC.

People

Don Colvin has been IESI's chief engineer for the past 3 years. Don's design accomplishments involve the better part of every major item in IESI's product line. He's also been known to lend a hand to both software and production when his knowledge was needed. Don is currently involved in the 5 ¼ inch floppy disk controller to be used in DATACORDERS IV and V.

New Dealer

We'd like to welcome MSI in Atlanta, Georgia to our list of authorized dealers. Dale Burri is the General Manager.

MSI, a service bureau providing generalized processing, is the largest service bureau in Atlanta.

IESI News

October 1, 1981
Vol. 1 No. 7

INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

CP/M Software

As we've been mentioning in the past few issues, IESI is about to release DATACORDERS IV & V, our CP/M based diskette systems. We will also be releasing CP/M versions of our QUICK data entry software and our BISYNC and TTYCOM communications software. We also plan to offer BASIC, word-processing, and financial modelling packages.

We are also interested in your ideas. What types of software would you like to see on DATACORDERS IV & V? Have you had experience with currently available CP/M compatible software (good or bad)? If you have any comments or ideas, drop us a line. Address it to 'Editor ---IESI News' at the address above. Let us know what you'd like to see. This is your chance to make DATACORDER better for YOU. We are particularly interested in programs such as WORDSTAR and TARGET.

The CP/M "Console"

The CP/M operating system recognizes a 'console-device' for interaction with the user. The console input device is normally a keyboard, while the console output is normally directed to a CRT.

DATACORDER, however, allows for some flexability in the definition of the console output device. DATACORDER V has a CRT, DATACORDER IV has a single line display, while an upgraded DATACORDER II may have both. In addition, the internal printer present on all DATACORDERS is considered a part of the console output device.

How, then, do we direct output to what seem to be three devices where CP/M expects only one?

Each of the three devices can be turned 'on' or 'off' under user OR program control. Thus a program could be written to output to only those devices it chooses, while the user might also elect to control those devices being used.

The effect is to allow "canned" programs to output effectively and under user control, while programs written for the DATACORDERS IV & V (in BASIC for example) can access those devices it wishes.

In addition, the CP/M list device is active on DATACORDERS IV & V as the optional Centronics parallel interface.

BISYNC - The Future

This month we conclude the revision history of IESI's BISYNC communications program with a brief look at its immediate future.

DATACORDER BISYNC will be released later this year in five forms: 16k DATACORDER I; 32k DATACORDER I; 16k DATACORDER II: 32k DATACORDER II/III; and a CP/M version for DATACORDER IV/V. The following enhancements are planned:

- Multiple tapes problems cleared up. (all versions)
- Option to NOT send an EOT when a tape error occurs. (32k & CP/M only)
- Unit separator accepted and transmitted properly. (all versions)
- New method of implementing "Re-Bid-Line" feature which does not require or use filemarks. (all versions)
- ASCII data now always written to tape when receiving. (configurable in 32k & CP/M only)
- Internal Modem enhancements.
- Configurable Auto-Dial. (32k & CP/M only, when used with internal or DATACORDER stand-alone modem).

People

Patty McKisick has been with IESI since August of last year. She is currently in charge of stores, shipping, and receiving. She is also always ready to help our assembly crew in a pinch.

Next Month:

Next month we will look at IESI's 'auto-start' CP/M. The operating system is there, but your operator doesn't need to know it! We will also take a look at DATACORDER II/III IESI BASIC and its revision history.

(CP/M is a trademark of Digital Research, Inc.)
(WORDSTAR is a trademark of MicroPro International)
(TARGET is a trademark of Advanced Management Strategies, Inc.)

IESI News

November 1, 1981
Vol. 1 No. 8

INTERNATIONAL
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Auto-Start CP/M®

This month we introduce a new feature of IESI CP/M, Auto-Start.

One of the drawbacks of any operating system is that it requires operator input. When such a system is used in data-entry, the operator normally has little need or desire to understand the operating system. IESI's Auto-Start CP/M, when used with CP/M's "SUBMIT" feature, can remove the operator completely from any operating system interaction.

CP/M's SUBMIT feature allows a string of operating system commands saved on disk to be 'input' to the operating system as if they had been typed by the operator. IESI's Auto-Start simply initiates a SUBMIT of a command file already on disk, whenever the operating system begins operation.

Envision the following scenario: our operator has some data to be typed in. This data is then to be processed locally, with a report and output data generated. This output is then to be transmitted to a service bureau for final data processing.

As soon as she turns power on and inserts a diskette, the operating system loads and Auto-Start is invoked, which begins a SUBMIT sequence. Without touching a key, the data-entry program is run, and she begins keying in data. Once she has completed the entry, she exits the program and then goes home! The Datacorder then, on its own, runs a data processing program, producing a printed report and output data file, then runs a transmission program which dials the service bureau computer, transmits the data file and receives a report back. After the phone connection is dropped, the report is printed.

An exciting scenario? Perhaps. A useful method of reducing operator error and maximizing computer performance? Absolutely! IESI Auto-Start CP/M: the possibilities are up to you.

BISYNC

Last month we inadvertently left out one additional feature planned for the next release of BISYNC. True 3780 compatability when using space compression will be available by optionally insuring that a record is never split between two transmit blocks.

IESI BASIC

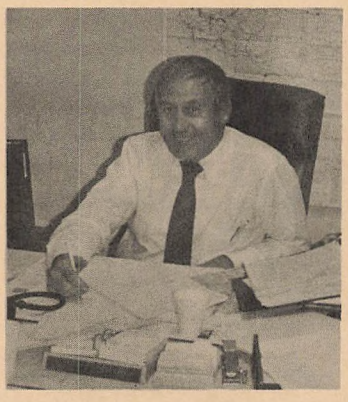
IESI Basic is a derivative of Microsoft Basic, modified to run on Datacorders II and III. All modifications listed below apply to both the interpreter and combiner, unless otherwise noted.

Version	Date	Modification
4.99		- Initial Version.
4.0	12.27.79	- VAL function corrected to allow leading spaces before a '+' or '-'.
5.0	01.18.80	- BAUD, PIN and POUT added. - White arithmetic keys enabled. - An obscure bug in user-defined functions was corrected.
6.0	08.04.80	- &KEY function added. - White arithmetic keys and comm-port I/O made optional. - Bug involving REMs on statements 1-9 corrected. - Bug involving tape re-write count corrected. - Added 9600 baud screen support. - PRON and PROFF added to turn internal printer on or off.

The next release of IESI Basic will be DATACORDER III version 1. The following modifications are scheduled:

- MODE key allows combined program to continue after external printer error.
- Screen support changed to 19200 baud.
- &KEY fixed.
- 'Print' tape input capability added.
- LPRINT action involving Top-of-Form corrected.
- ESC character on tape input data converted to carriage returns.

People



Truman Rew has been an integral part of the IESI sales force for the past five years. He spends much of his time on the road meeting customers and potential customers. His background includes V.P. of Data Processing at Hudson House and West Coast regional sales manager for NORAND. Truman also enjoys water skiing and collects Winchester rifles.

R CP/M is a registed trademark of Digital Research, Inc.

IESI News

December 1, 1981
Vol. 1 No. 9

INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

1981 has been a very eventful year for IESI. We would like to take this opportunity to thank our customers, dealers, suppliers and all who have helped make this year a successful one. To all of you go our wishes for a happy holiday season and a prosperous 1982.

Extended Quick Bug Fix

A bug has been found in the Extended Quick combiner for DATACORDERs II and III. If the CLEAR REC key is used after using error correction and before a record is written, the adjustments to any accumulating registers will be lost. This has been corrected in a new release of the Extended Quick combiner. The current version is now QCBNE3.20, dated November 1981. The update is available for $25. Please contact IESI or your dealer if you wish an update.

DATACORDER I Tapes

Some confusion has recently arisen concerning DATACORDER I cassette tapes and the programs using them. For several years, DATACORDER II Quick has been able to allow a limited amount of data to be added to a tape after the End-Of-Tape indicator has been sensed. This was possible because the End-Of-Tape indicator preceeded the actual end of the tape by a certain distance. The original DATACORDER I tapes, however, did not have enough room for the additional data.

The solution choosen was to have the tape manufacturer make special tapes for IESI, moving the End-Of-Tape indicator further away from the acutal end of the tape. In conjunction with this action, DATACORDER I software was modified to allow new tape style.

DATACORDER I software dated prior to Sept. 19, 1982 can only use the original 'short leader' tapes (no longer available from IESI), and will fail when a tape becomes full. "BINDING TAPE" will result if the newer 'long leader' tapes are used. Software dated on or after Sept. 19, 1980 can use both types of tape, however when 'short leader' tapes are used as data tapes, the failure will still persist if the tape becomes full.

Check your program versions and dates. Contact your dealer or IESI for further information.

BUGS

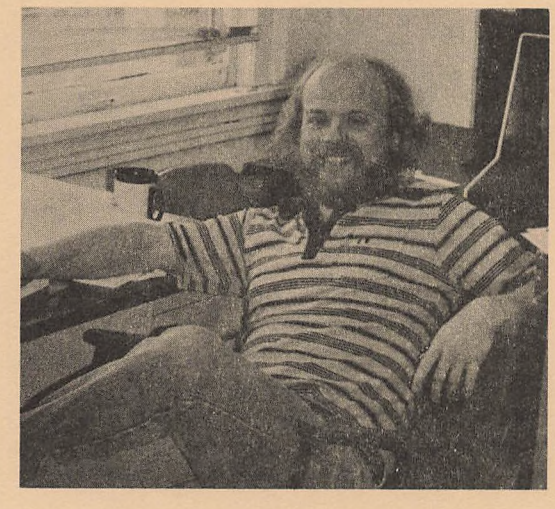
A new policy has been implemented to encourage reports of program failures and bugs. The first person to report a subsequently verified program bug to the IESI software department, by phone or bug report form, will receive an interim copy of the fixed program when available, and a free copy of the program when subsequently released. Updates normally cost $25 per cassette. Bug report forms are supplied with all manuals and program documentation, or simply call IESI.

TTYCOM

This months software revison history covers TTYCOM, the Teletype communications emulator for DATACORDER I.

Version	Modifications
271.X	- Original Version
1.10	- Printer echo of configuration parameters made optional using CTRL-P. - Null and DLE character added from keyboard. - Communications hardware presence test added. - New parity error handler.
1.20	- Characters sent at 10 second intervals when waiting for Tx prompt corrected. - Tape receive no longer affects RTS if RTS not toggled. - "Back UP" feature in configurator added. - Ability to print data transmitted added. - Ability to transmit "PRINT" tapes added. - Printout on certain tape errors added.

Next month: TTYCOM for Datacorder II.



People

Bruce Kolpack has been with IESIs Software Department for two years, and is the man behind QUICK. His responsibilities also include several diagnostic programs. Bruce's outside interests include high-altitude mountaineering and ice climbing. A member of an unsuccessful Mt. McKinley climbing party, Bruce plans to lead another assault this July. Very familiar with Mt. Rainier, he has climbed it several times, including a one-day "over the top" traversal of Washington's highest peak.

IESI News

January 1, 1982
Vol. 1 No. 10

INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

CP/M Quick

IESI QUICK data entry language is now available in a CP/M disk version for use with Datacorders IV and V.

CP/M Quick is another milestone in the history of IESIs data entry software. Built on Extended Quick for Datacorders II and III, CP/M Quick has been completely revamped for operation in a disk environment.

CP/M Quick now features:

- Easily programmed and reliable data entry programs.
- Fully programmable error correction.
- External file 'table' look-up.
- External file data extraction.
- External file data modification.
- New flow independent 'write record' parameter.
- Check digits.
- Up to 10,000 program statements.
- 'Picture' formats for data output.
- Register arithmetic (with division), 20 registers.
- Display Message Statement.
- Four function calculator.
- Upper/Lower case and Control Characters.
- 'Renumber' and 'Help' Program Editor commands.
- Ergonomic CRT format (DC V only), with real-time disk space display.

One of the most exciting new features of CP/M Quick is 'External File' support. In addition to creating (or appending to) a single output data file, Quick can now access several additional 'external' files. These files may be created by Quick, a text editor or any data generation program. They can be used for simple table look-up, insuring that an entry is one of those allowed and in the table. In addition, however, Quick can access any record in the external file using an entry or a register as a key, and extract data from the record or modify data within it.

Imagine not only verifying a part number entry on a sales record, but extracting a description for operator verification! And a price! And adjusting an associated quantity!

Programmable error correction is another of CP/M Quick's newest features. The ability, under program control, to correct any record previously written. Even data written in a previous batch may be corrected. The new 'Correct Using' statement allows any record to be corrected in auto-display mode, by the statement that created the record, or any other data entry statement.

CP/M Quick, a new step forward in data entry, is available now for Datacorders IV and V. Contact IESI for further information.

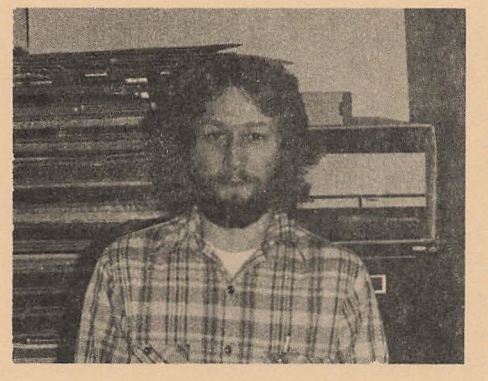
CP/M is a trademark of Digital Research, Inc.

TTYCOM

This month's software revision history continues with TTYCOM, the Teletype communications emulator for DATACORDER II.

Version	Modifications
271.11	- Original version.
2.10	- Added capability to send NULL and DLE characters from the keyboard.
2.20	- Allowed the NULL code optionally stripped. from received data to be user defined. - Removed extra NULL transmitted when no Tx End-Of-Line characters were defined.
2.30	- Fixed Non-IESI transmit to ignore CR's in the data being transmitted.
2.40	- Character replacement option added.
2.50	- Characters sent at 10 second intervals while waiting for a transmit or re-transmit prompt corrected. - Tape receive no longer affects Request-To-Send. - "Back-up" feature added in configurator. - Parallel and Serial printer support added. - Ability to print data as transmitted added. - Ability to transmit "Print" tapes added. - Print out on certain tape errors added.

People



Ron Cole has been with IESI since 1977 as one of our most valued technicians. Ron now spends most of his time servicing the older DATACORDER 102's. In addition to his work for IESI, Ron is also completing a B.S. in Electrical Engineering at the University of Washington. When he has spare time, he also enjoys hiking and climbing.

Last month we inadvertantly left out another of Bruce Kolpack's notable achievements, his B.S. in Electrical Engineering from North Dakota State University. Sorry Bruce!

IESI News

February 1, 1982
Vol. 1 No. 11

INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

CP/M Communications Software

Later this month, IESI will be releasing CP/M version of BISYNC and TTYCOM, our two most popular communications programs. Both are designed to transmit and receive data files to and/or from a multitude of computer systems.

BISYN4 is a configurable, batch oriented, synchronous communications program, using IBM's Binary Synchronous (BSC) protocol. Compatible with 2780/3780 and 3741 style communications, BISYN4 also has the capability to handle numerous variations. It can transmit and receive multiple files on multiple disks, as well as receiving data and outputing it directly to an external line printer or to the system console.

BISYN4 contains most of the features of Datacorder III BISYNC, including: Terminal ID; Baud Rate Selection; Component Selection; ASCII or EBCDIC data link; ASCII to EBCDIC conversion; EBCDIC to ASCII conversion; Space Compression; Transparency; Record Delimiter removal and/or translation; Limited Conversational Mode; and Auto-Dial with IESI direct-connect modems.

TTYCM4 is a configurable interactive communications program, emulating most CRT's and teletype-style devices. TTYCM4 allows on-line interactive communications to most host computer or time share systems. Data can be transmitted from and received to disk files as well as the system console or external printer. Files to be transmitted may be generated by QUICK, communications programs, text editors or data processing programs. Similarly, data received may be printed off-line, or used as input to any of the aforementioned programs.

Like BISYN4, TTYCM4 contains most of the features of its Datacorder III predecessor; Full/Half duplex operation; Baud rates up to 19200; Character length; Parity selection; Transmit and receive End-Of-Record code definition; EBCDIC to ASCII data conversion; receive space compression; LRC and Ack/Nak transmission/retransmission; and Inter-character and Inter-line delays.

MOHAWK

This month, we present the revision history of our Mohawk communications program, MOHWK2, for Datacorder II. MOHWK2 uses the Mohawk Syncronous Communications (MSC) protocol. Its primary purpose is to transmit data tapes from a Datacorder II to a Mohawk or NCR key-to-nine track tape unit. MOHWK2 can also receive data for later off-line printing.

Version	Revisions
261.5,312.6	- These programs are not configurable, and form the basis for further modification.
MOHWK2.10	- Combined the 4 versions of 261.5, and 312.6 into one configurable program. - Receive capability added. - Block size made configurable. - Local/Telephone selection configurable. - Hex dump during communications added for debugging.
MOHWK2.20	- Auto Turnaround (Transmit to Receive, Receive to Transmit) added. - Restart Inhibit added. - Local/Telephone choice changed to a specification of the ACK delay in mille-seconds.

The phone company announced last year that any given phone call may have an equal chance of being switched via satellite or by land-line, or by a combination of the two. The MSC protocol is sensitive to the additional delay induced by Satellite communications. While MOHWK2 can be configured to account for satellite communications, one still needs to know which path the call will take, satellite or land-line.

We therefore recommend, to minimize communications problems, that a protocol other than MSC, which is less delay sensitive be used for dial-up telephone communications. Our most common suggestion is the use of IBM Bisync.

Leon Witt has been a member of the IESI assembly crew since 1979 and is currently lead assembler. Charged with building all Datacorders, from I to V, Leon gets his hands on, in and all over every machine we sell. In his spare time, Leon is also a member of the Bellevue Community College volleyball team.

IESI News

March 1, 1982
Vol. 1 No. 12

INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

Microsoft BASIC

Microsoft BASIC version 5.21 is now available for Datacorders IV and V.

Long the leader in BASIC for small systems, Microsoft BASIC for CP/M has become the industry standard. With availability for immediate shipment, MBASIC opens up an entire world of applications packages and routines for Datacorder IV and V.

Microsoft's powerful and reliable implementation of the BASIC language gives you more programming flexibility than ever before. Users of previous versions of Microsoft BASIC, including IESI BASIC, will note several improvements. Features include:

- Variable length Random and Sequential Files
- IF/THEN/ELSE constructs
- WHILE/WEND construct
- Line number generation and Renumbering
- Four variable types
- Trace and ON ERROR facilities
- 40 character variable names
- Improved dynamic string space allocation
- Program MERGE command

Some good news also, for users of IESI BASIC on Datacorders II and III. Existing IESI BASIC programs can be converted to Microsoft BASIC with minimal effort. The BISYN communications program can be used to transmit a BASIC program saved on tape in ASCII to a Datacorder IV or V. The resulting file can be directly read by the Microsoft BASIC interpreter. Since IESI BASIC is a derivative of earlier versions of Microsoft BASIC, program modification is also a simple task. Datacorders IV and V, with Microsoft BASIC, protect your software investment.

For more information on Microsoft BASIC and other software available for Datacorders IV and V, contact IESI.

Burroughs Communications Program

The Burroughs communications emulator is designed to run on Datacorder II and emulate TD 700 and 800 style terminals. Both point-to-point and multipoint modes of communications are supported at speeds up to 9600 baud. The following revision history reflects changes made to the Burroughs program over the past two years.

Version	Revision
296.OR	- Basis of further modifications. Any current users of this version are encouraged to upgrade to the latest releases.
BURCM2.10	- Problem fixed which would crash the program if double-MODE were typed too many times.
BURCM2.20	- Problem fixed which would crash the program unexpectedly during transmission.
BURCM2.30	- In half duplex, the data carrier is now turned off faster, resulting lower line usage. - Added rewind after duplication. - Corrected bug which could allow a program configured to write track B to erroneously damage track A. - Tape error handler corrected. - 'Ack Timeout' configuration question added. - Enabled configuration printout of questions and responses entered.

Later this year, look for released versions of Datacorder I Burroughs Communications, and the 'extended' Burroughs for Datacorder III, including external CRT support and Auto-Dial. Both version are available on a pre-release basis for testing.

People

Leo Notenboom has been a member of IESI's software staff since 1979. Leo's responsibilities include most Datacorder Communications programs, IESI BASIC and a number of test and utility programs, in addition to writing and editing IESI news. His latest achievement is the implementation of CP/M for Datacorders IV and V. Leo has a B.S. in Electrical Engineering from the University of Washington (1979), and spends some of his spare time working (and playing) on his home computer.

IESI News

April 1, 1982
Vol. 2 No. 1

INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

IESI NEWS

This issue of IESI NEWS marks the first anniversary of its publication. At this time, we'd like to take the opportunity to introduce ourselves to those who have joined the IESI NEWS mailing list this past year.

IESI NEWS is published monthly by International Entry Systems, Inc., and is distributed free of charge to its customers, dealers and other interested parties. IESI NEWS provides current information on IESI software, hardware and other developments affecting Datacorder users. In addition, each month we give a software package "revision history", so that long-time users can be informed on the up-to-date software revisions, and the changes that have occurred. We also introduce the people who are IESI, in a feature article each month.

A limited number of back-issues of IESI NEWS are available. Send your request, along with the specific issues desired, to IESI NEWS, at the address above.

Questions and comments are always welcome. Address your enquiries to EDITOR - IESI NEWS, at the address printed above.

Datacorder V Special

Just a reminder, the Datacorder V special announced last month ends at the end of this month. Our normal list price is $5995, but until the end of April, Datacorder V is available for $4995 during this introductory offer. Remember, that price includes Datacorder V with 64K RAM, two 306K diskette drives, the CP/M operating system, and various programming utilities. Quantities are unlimited at this special price and discounts start from $4995, however, all units ordered at the introductory price must be delivered within 60 days.

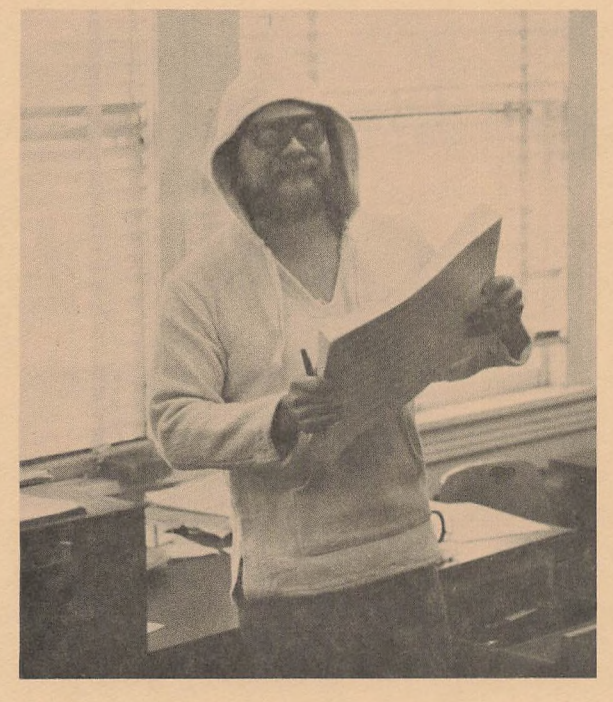
Centronics Print Program/PRINT2

This months' revision history covers the Centronics Print Programs, and PRINT2, the peripheral printing program. Early last year, the five versions of the Centronics program were replaced by the single PRINT2 configurator. This months' history, therefore will not be in its usual tabular format.

The five Centronics print programs have no known bugs, and hence, no revisions over the past two years. Each program, using a unique 'translator', was designed to fit a particular printing application.

PRINT2, announced in the June issue of IESI NEWS, was designed to fill all the existing uses of the Centronics programs, and through the use of IESI's configurator concept, can be programmed to fit into many more applications. Version 2 of the PRINT2 configurator is to be released sometime this summer, correcting some problems in version 1. Watch IESI NEWS for information on availability and the changes implemented.

If you are currently using one of the Centronics programs, you do not need to replace your program unless you are experiencing difficulty, or have a new application that your current program doesn't fit into. The PRINT2 configuator is available for $100. Current users of the Centronics programs need only pay $25 as an upgrade charge.



People?

Captain Software has been roaming the halls of IESI for the past two years now. "Keeper of the Code", the good Captain is kept busy finding bugs left by the notorious "Bugman" (No doubt financed by our competitors). The Captain is also responsible for all of the example programs in "STRUCTURED PROGRAMMING IN QUICK". No one really knows where the Captain came from, or where he goes. He has, however, been seen in front of an ASTERIODS video game for hours on end.

Happy April 1st!

IESI News

May 1, 1982
Vol. 2 No. 2

INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

TIP - Tape Interchange Program

A new utility is now available for users of Datacorder IIs or IIIs which have been upgraded to disk capability. The Tape Interchange Program, or TIP, allows Datacorder II/III style tapes to be read or written using the internal tape deck. Note that the tape deck is present on Datacorder II/III upgrades only, and not on Datacorders IV and V. TIP supports IESI style data tapes, print tapes and BASIC ASCII-saved program tapes. TIP can also be used to backup any CP/M disk file onto cassette tape, if so desired.

TIPs initial purpose is to overcome the immediate need for several communications programs which are not available under Datacorder CP/M, but are available on Datacorder II/III. Using TIP, one can now create a data tape from a CPM QUICK generated data file, or any data file, and then use the Datacorder II/III communications program to transmit the tape, all using the same machine.

Another application of TIP is the situation where a number of Datacorder IIs and IIIs are being used for data entry, but communications is undesirable. A single Datacorder II, upgraded to disk, used with TIP, can provide central processing capability. The tapes generated by the Datacorder IIs and IIIs could be read into the disk system and either processed or collected and forwarded by the disk system in a single transmission.

TIP also gives you the capability to read IESI BASIC programs to disk, in preparation for conversion to Microsoft or any other BASIC. The tape programs need only be SAVEd in ASCII, and can then be read directly by TIP.

Though we recommend backing up your disks using other disks, TIP can also be used to save any CP/M file onto tape. This tape can then be read again, restoring the file. Any file may be saved in this manner, including data files, BASIC and QUICK programs as well as command (.COM) files.

TIP is available now for $50. As with all IESI CP/M programs, two disk copies are provided, along with full documentation.

Tape Modification Program

The tape modification program allows QUICK and BASIC data tapes to be altered after they have been written. Individual records can be located and modified on a character-by-character basis. Two versions of the program exist:

303.2	- This original version works on QUICK generated data tapes only.
TPMOD2.10	- This version was modified to allow modification of data tapes generated by BASIC, as well as communications received 'PRINT' tapes.

Both versions are still valid. There is no need to change from version 303.2 unless you required the additional features of TPMOD2.10

A CP/M Programming Tip

Have you ever exited a program just as you decided that you need to run it again? Or in the case of some programs, exited just so you could start again? Here's a program YOU can create that will allow you to re-run some programs without re-loading them.

At any time, when you're at the 'A ' prompt, enter "SAVE Ø R.COM". This will create a zero-length COMmand file. Now run STAT, without any parameters. Now type "R *.*". You should see a STAT printout of all the files on your disk. The program "R" simply causes the last program loaded into memory to be run again, from the beginning. R accepts all the parameters that last program did, and does not re-load the program.

R does not work with all programs. QUICK, for example, modifies parts of itself and hence will not run properly without reloading. Many programs, however, do not have this limitation. QEDIT, PIP, STAT, BISYN4, UTIL, SYSCPY are among those that do not have to be reloaded.

People

This month we take great pride in introducing the newest member of the IESI family, Sharyn Sims. Sharyn is our new Applications Engineer. Her responsibilities include answering customer questions about Datacorder programming and installation, as well as performing a certain amount of Datacorder installations herself. She'll also be in charge of the new Datacorder V users manual. Sharyn received her bachelor's degree in Math and English from the U. of Texas and then spent several years working with data entry and accounting systems in the south-west. Sharyn likes to hike, go river rafting, attend movies and plays and work crossword puzzles.

IESI News

June 1, 1982
Vol. 2 No. 3

INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

PRINT2.20

A new version of PRINT2, the peripheral printing program for Datacorder II, is now available.

For those not already familiar with PRINT2, it is a program designed to take data tapes written on the Datacorder II or III and print them on the internal, or one of three external printer ports. PRINT2 supports all IESI data tape formats including QUICK and BASIC data tapes, BASIC ASCII-saved program tapes, and communications received 'Print' tapes, in either ASCII or EBCDIC character codes.

PRINT2 version 2 has had a number of bugs corrected and some new features added:

- A configurable option has been added to allow null characters, (hex ØØ) to be removed from the incoming data stream. This becomes useful if the tape to be printed is a communications received 'Print' tape with null characters at the end of every line.

- The default for the Track A or B selection made by the operator is now configurable. If Track B is to be printed regularly and if so configured, the operator need only press ENTER in response to the tract select question.

- A bug which caused some erroneous top-of-forms to occur under certain circumstances has been corrected.

- A bug which caused the program to crash in a 16K machine when the external printer was used, has been corrected.

In addition, the PRINT2 document has been updated and now includes a configuration sheet for the new program.

PRINT2.20 for Datacorder II is available from IESI and lists for $100. Upgrades for those currently using older versions of PRINT2 are available for $50.

Extended QUICK Combiner

A new version of the Extended QUICK combiner for Datacorder II/III has been released. This version includes several changes:

1) A problem was fixed that caused a "Re-Read Limit Exceeded" error when in error-correction mode after a single write error.

   Note: When in error-correction mode, if a "Re-Write Limit Exceeded" error occurs, the data block is written at the end of the file, a "Block Out of Sequence" message is printed, and the program is terminated.

2) The TOTAL key function has been extended to include all registers, ØØ-19.

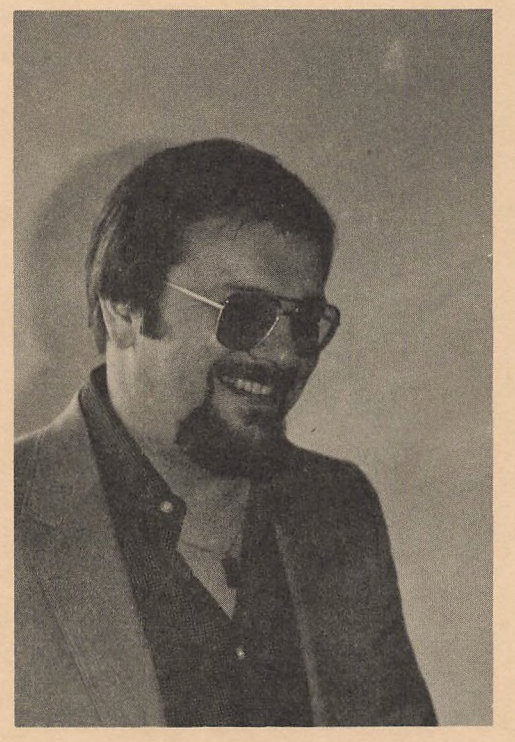
3) If an auto-displayed field is negative, the minus sign is now displayed.

4) When a "Re-Write Limited Exceeded", or "Re-Read Limit Exceeded" error occurs (except in error-correction mode), the operator must press the EOT key twice to terminate the program.

5) CRT flicker (Datacorder III) has been reduced.

QCBNE3.30 is now available to previous owners of the Extended Quick programming package for an update fee of $50. Contact IESI or your dealer.

People



Larry MacKnight joined the IESI staff on December 1, 1981 as Director of Marketing and Sales. His responsibilities also include applications/ customer support and order entry. Having a background in electronics, he preformed engineering functions during the California Aerospace heyday. Larry moved to the Seattle area in 1966 and has since served as Director of Corporate Sales for Data I/O corporation, Vice President and cofounder of Advant Corp. and Vice President of Marketing and Sales for Applied Microsystems, Inc. Among his favorite pastimes are programming on his home computer, playing golf and pocket billards. Larry's educational background includes attendance at UCLA and post-graduate studies at Arizona State.

July 1, 1982
Vol. 2 No. 4

IESI News

INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

Datacorder CP/M Version 1

Release version 1 of Datacorder CP/M operating system for Datacorders IV and V is now available from IESI. The operating system comes with two versions, a 58k system for maximum available memory, and a 50k system, which maximizes disk access speed. With both systems, all the standard CP/M utilities (PIP, STAT, SUBMIT, ASSM, etc.) are included as well as new versions of the IESI programs, SYSCPY and UTIL along with full documentation.

Also ready is the initial release of the CP/M QUICK data entry programming language. This release includes the Quick Interpreter and Program Editor as well as the new up-to-date manual. Two important new features have been added: The "Historical Data Display Mode" allows the data entry operator to examine, in raw form, any record within the current data file. In addition, external file parameters entered at combine-time may now be listed at any time during data entry.

The initial release is made free of charge to existing Datacorder IV and V owners. In addition to the released software noted above, the release package also includes the new disk-box PROM software (DISK4.10), the new Datacorder IV/V boot PROM software (DBOOT4.10), and the new full-ASCII keyboard.

If you are a Datacorder IV or V owner, you will be contacted. However, you can insure that you receive the release package by contacting IESI at 800-426-7740. (206-525-6800 in Washington State).

CP/M is a registered trademark of Digital Research

Keyboard-Video-Printer Test (KVP)

This month's software revision history is the first in a series on IESI diagnostic software.

The Keyboard-Video-Printer test (or KVP for short) is a diagnostic aid used to verify the proper operation of the keyboard, internal display, external CRT (if present) and internal printer present on Datacorders I, II and III.

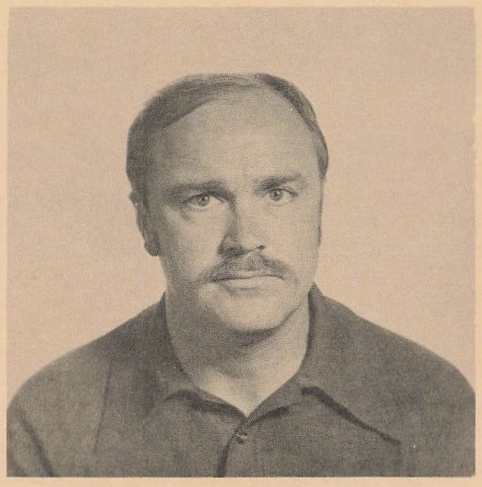
DC I Version	Revisions
KVP1.10	- 9.25.79: Original version for Datacorder I. Taken from Datacorder II version.
KVP1.20	- 12.21.79: Modified to display all displayable characters during Video test.

DC II/III Ver	Revisions
257.6	- 1.17.79: Original version for Datacorder II only.
KVP2.10	- 11.20.80: Program renamed. Identical to previous version.
KVP3.10	- 9.1.81: Datacorder II/III version which operates on both. Lower cases printable characters and CRT test added.
KVP3.20	- 2.16.82: Added Alpha-Lock keyboard test and CRT alignment function. Fixed CRT display after a Keyboard test beep.

A new version of KVP (KVP3.30) is expected to be released sometime this summer, incorporating a new Keyboard test for the Full-ASCII keyboard to be used with Datacorder IV/V. KVP is available from IESI or your distributor, and lists for $100.00.

People

Don Baird, our 'man in Frisco' heads the San Francisco branch of the IESI service department. Don has been with IESI since 1980, after being with a service organization, where he worked on, what else but, Datacorders! Don has over 30 years of experience in electronics including 10 years in the Air Force and 14 years with NASA including tracking and aquisition on both the Gemini and Apollo projects.



IESI News

August 1, 1982
Vol. 2 No. 5

INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

IESI BASIC Version 3.10

Release version 3.10 of IESI BASIC is now available for Datacorders II and III. BASIC3.10 and BASCX3.10 not only offer the external screen support that comes with Datacorder III, but have a number of new and important features.

The most welcome change to IESI BASIC is the addition of a REWRITE USING statement. This statement allows the BASIC program to re-write, in place, any record on an existing QUICK or BASIC data tape. Coupled with the new BACKUP statement, which will backup any number of records on the tape, all the way to the beginning if so desired, BASIC programs can now be written to include powerful data entry error correction routines.

Other changes include:

- &KEY function fixed.
- BASIC can now read PRINT tapes, as well as data tapes.
- Bug in LPRINT Top-of-Form handling fixed.
- Screen Baudrate made selectable when BASIC asks for 'OPTIONS'.
- Bug in VAL function fixed.
- BACKUP, REWRITE USING and 'R' option to the OPEN statement added.

IESI cassette BASIC version three is available now. The BASIC programming package lists for $350.00 and includes BASIC3.10, the BASIC interpreter; BASCX3.10, the BASIC combiner, and a newly revised IESI BASIC reference manual. Updates are available to existing owners of IESI BASIC for $100.

CP/M Quick, Version 2

Version two of CP/M QUICK is now available. A bug has been corrected which affected writing of a file greater than 16k in length. This affected the program editor, QEDIT.COM, when writing out the source file, and the combiner, QUICK.COM, when invoked to write out a combined program in executable .COM format. Disk directories have been seen to be scrambled in addition to just losing the affected file.

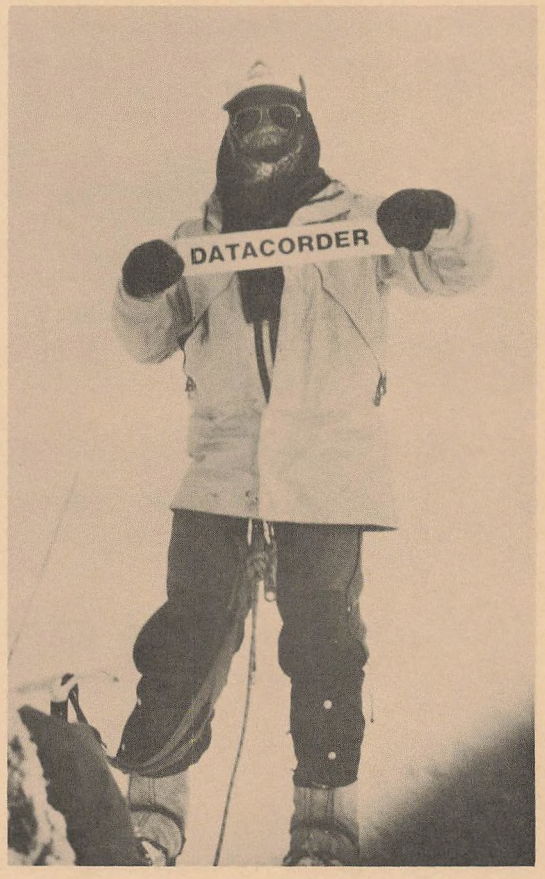
A second bug in QUICK.COM has also been corrected. Programs which used a record length of a multiple of 80 would crash if the Historical Data Display (MS key) was used.

The Program Editor now preserves a previously existing source file by renaming it with a .BAK extension prior to writing the new file. Any previously existing .BAK file is erased.

In addition, checksumming has been added to QUICK. The program editor and combiner now both contain a checksum which they verify upon loading. In addition, the combiner will generate a checksum for programs written out in .COM format. When verified upon loading the program, checksums actually verify that the program was loaded in its entirety and correctly. A checksum error indicates that the program copy on disk is hurt, or was loaded improperly.

DATACORDER on top in North America

Well, sort of. In a previous issue we'd mentioned that Bruce Kolpack, one of our Software Engineers, was to climb Mt. McKinley this July. At over 20,300 feet, Mt. McKinley is the tallest peak in North America. We're more than happy to report that Bruce is back after having successfully made it to the top. Bruce and his party summitted on July 8 after 18 days climbing. Congratulations Bruce!



IESI News

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INTERNATIONAL
ENTRY SYSTEMS INC. 408 N.E. 72nd Street / Seattle, Washington 98115

The IESI 6000

With great pride, International Entry Systems formally announces its new desktop small business computer system, the IESI 6000. The high performance 6000 combines the years of IESI's small business and microprocessor experience with state-of-the-art hardware and software to produce a fast, usable and reliable computer system.

Extensive work has gone into making the 6000 one of the fastest and most flexible microcomputer systems. The 6000 comes with a standard 131,072 characters of memory, two 320k diskette drives and a 5Mhz Z80B processor. Memory can be expanded to over 1 million characters, and optional 640k diskette drives are available. The implementation of the CP/M operating system not only gives the maximum available space for executing programs, but also uses extensive I/O buffering, making the 6000's diskette access one of the fastest in the industry.

But speed isn't everything! The standard CP/M 2.2 operating system allows access to a full range of ready-to-run applications software. Word-processing, Communications, Financial Modelling, Data Base Management, Accounting, Data Entry, and a host of Programming Languages are just some of the software packages available that will run on the IESI 6000.

IESI 6000 Software

CP/M 6000, IESI's implementation of CP/M 2.2, includes the high speed diskette buffering features mentioned previously, and RAM-Disc, the use of memory as a pseudo disk drive that can be used by any program. File access to and from RAM-Disc occurs at exceptionally high speed and can result in tremendous savings of time.

The IESI 6000, running CP/M 6000 can run a variety of commercially available software packages. Some of the more popular packages, available from IESI are: WordStar, MailMerge and SpellStar, word-processing programs by MicroPro; SuperCalc, the financial modelling spread-sheet program by Sorcim; BASIC-80, the Basic programming language and BASCOM, the Basic compiler, by Microsoft, Incorporated.

In addition to the 6000 itself, IESI brings its own proven communications software to the 6000. BISYNC is available, allowing the 6000 to communicate as a synchronous remote terminal in 2780, 3780 and 3741 type environments. TTYCOM turns the 6000 into the world's most intelligent asynchronous terminal, allowing you to interact and transfer files with practically any other computer, small or large.

IESI has also implemented a new version of QUICK, IESI's data entry language, for the 6000. In addition to data entry and traditional table look-up, QUICK now allows programable error correction, indexed look-up file update, has an extensive 'Help' facility and can be configured to use the cursor controls and keyboard codes of any terminal used with the 6000.

IESI 6000 Hardware

The IESI 6000 can be used with any asynchronous ASCII terminal. The Auto-Baud function, which occurs each time the machine is turned on, eliminates the need to preset the baud rate.

The IESI 6000 comes standard with 128k of memory, expandable to 1 Megabyte, (over 1 million characters). The two standard double sided, double density floppy diskette drives hold 320k of data each. Diskette drives holding 640k each are optional. Additional drives can be added external to the 6000. Winchester drive support of up to 20 Megabytes is currently under development.

The 6000 comes standard with a serial communications interface capable of both synchronous and asynchronous communications at speeds of up to 19200 baud. A parallel printer interface, and a serial console interface are also standard.

DATACORDER BISYNC

On the 10th of January, IESI released new versions of the BISYNC communications programs for DATACORDERs I, II and III. This program allows the terminals to perform synchronous BSC communications in 2780, 3780 and 3741 batch environments. Upgrades are recommended and available now from IESI for a $50 charge per program for existing users of IESI BISYNC. The new programs are:

BISYN1.60	:for all Datacorder I's.
BISYN2.60	:for all Datacorder II's.
EXBSC3.10	:for all Datacorder III's and 32k Datacorder II's.

Some of the features and changes include: Configurable Auto-Dial (EXBSC only, when used with Datacorder internal modem); Automatic conversion of received data to ASCII; Support of the Unit Separator character in both transmit and receive; full 3780 capability; ASCII "Print" tape and BASIC program tape transmission capability and several bug fixes.

DATACORDER II/III Tape Problems

Last month IESI sent out a technical bulletin to all customers warning of the increased incidence of tape decks being returned for repair with only dirty tape heads to blame. The notice also pointed out that tape head cleaning should be a part of a routine preventative maintenance program and is not covered under the service contract. The tape deck return for only head cleaning will result in a charge of $100, regardless of service contract status.

It is worth reiterating that tape deck heads must be cleaned regularly. The figure below illustrates the differences between a clean and a visibly dirty tape head.

Normal Clean Tape Head

Excessively Dirty Tape Head

For more information on tape heads and detailed instructions on tape head cleaning, call or write and ask for the tape head cleaning bulletin.

Maintenance Agreements

Starting on March 1, IESI will be instituting a minimum inspection fee for each DATACORDER or IESI 6000 not on a current contract before it is placed under a new Maintenance Agreement. Freight to and from the factory, and any additional parts required to bring the machine to specifications will incur additional charges. Please check your Maintenance Agreements to see if they are about to expire. Avoid the unnecessary expense of reinspection and let us know if you wish to continue your agreement.

ORDER FORM

Name: _____

Address: _____

_____

_____

_____

Quant.	Item	List	Exten
	IESI 6000 - 128k Memory	$3495.00	
	IESI 6000 - 256k Memory	$3990.00	
	640k Diskette Drive Option	$525.00	
	Adds Veiwpoint Terminal	$725.00	
	WordStar by MicroPro	$359.37	
	MailMerge by MicroPro	$181.50	
	SpellStar by MicroPro	$181.50	
	SuperCalc by Sorcim	$208.12	
	BASIC-80 by Microsoft	$252.04	
	BASCOM - BASIC-80 Compiler by Microsoft	$284.35	
	IESI 6000 BISYNC	$225.00	
	IESI 6000 TTYCOM	$225.00	
	IESI 6000 QUICK Programming Package	$335.00	
	Datacorder I BISYNC Upgrade - BISYN1.60	$50.00	
	Datacorder II BISYNC Upgrade - BISYN2.60	$50.00	
	Datacorder III BISYNC Upgrade - EXBSC3.10	$50.00	
Total			

Prices subject to change without notice.